



Project Lead the Way (PLTW) Engineering: POE 2015-2016 Scale-Up Program

Overview: Funding will assist educators in implementing and expanding Project Lead The Way's Engineering program by providing tuition for Principles Of Engineering (POE) Core Training for one educator and six VEX PLTW Engineering Robotics Kits.

Grade Levels: 9-12

Program Summary

Project Lead The Way (PLTW) is a nonprofit organization and the nation's leading provider of K-12 STEM curricular programs. PLTW's world-class, activity-, project-, and problem-based curriculum and high-quality teacher professional development model, combined with an engaged network of educators and corporate partners, help students develop the skills needed to succeed in our global economy. PLTW's rigorous and relevant curriculum is collaboratively developed and consistently reviewed and improved by PLTW staff, teachers, university educators, industry experts, and school administrators. It leverages an innovative, project-based approach, fostering collaboration and building critical thinking skills.

What does the project provide?

This project will provide selected LEA sites with teacher training for **PLTW Engineering: Principles of Engineering (POE)**. One educator is required to attend Core Training. This project will also provide six VEX PLTW Engineering Robotics Kits. These kits will provide schools with two-thirds of their initial material-related costs for up to 24 students per class period. These kits will be shipped directly to each applicant. They will also receive a specific PLTW Purchasing Manual, containing a detailed outline of all one-time and consumable equipment and supplies (including estimated costs, quantities, and potential vendors) for the PLTW Engineering (POE) course.

What is required by the applicant in order to implement this program?

- Review the [PLTW Register Now](#) webpage and understand the [PLTW Engineering Program Requirements](#).
- If not already registered, the applicant must register through the PLTW online registration process. Select a District Administrator and School Administrator (for each school) to serve as the main points of contact with PLTW and be responsible for providing and maintaining accurate data and information. Upon registration, the District Administrator will receive an email with a link to the [PLTW Agreement](#). Registration does not commit the school district or school to implement PLTW.
- Review the PLTW agreement with the school board, superintendent, and legal department to ensure all parties are aware of district and school responsibilities. After obtaining the authorized signatures, email the agreement to the PLTW School Support Team.
- Execute an Applicant Agreement with PLTW as a part of the Scale-Up Award before attending Core Training.
- Select an educator to instruct the PLTW Engineering Principles Of Engineering (POE) course. Educators should be excited to teach a project-based curriculum and meet the requirements of the PLTW agreement. Once the educator is selected, the School Administrator will register the educator in the PLTW database.
- Register for Core Training at the University of Iowa College of Engineering. Once the educator is added to the PLTW database, they can register for POE Core Training (two-week training). Educators must successfully complete all required online PLTW Engineering Readiness Training modules prior to attending Core Training. Educators must successfully complete and pass Core Training for every PLTW Engineering course they wish to instruct.
- Purchase necessary equipment and supplies. Review the provided PLTW Engineering POE Purchasing Manual and order the necessary items for the course. Start the ordering process early to ensure the lab is fully equipped before the new school year.

Website to View Program and Standards Alignment: <http://alignment.pltw.org/site/index>

Program Video: <https://www.youtube.com/watch?v=yyDn9dXJ3MI&list=PLcCTPHuIP75L4OB5bdEiFmryWewqxbXRT&index=8>